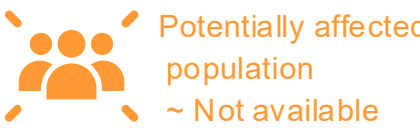
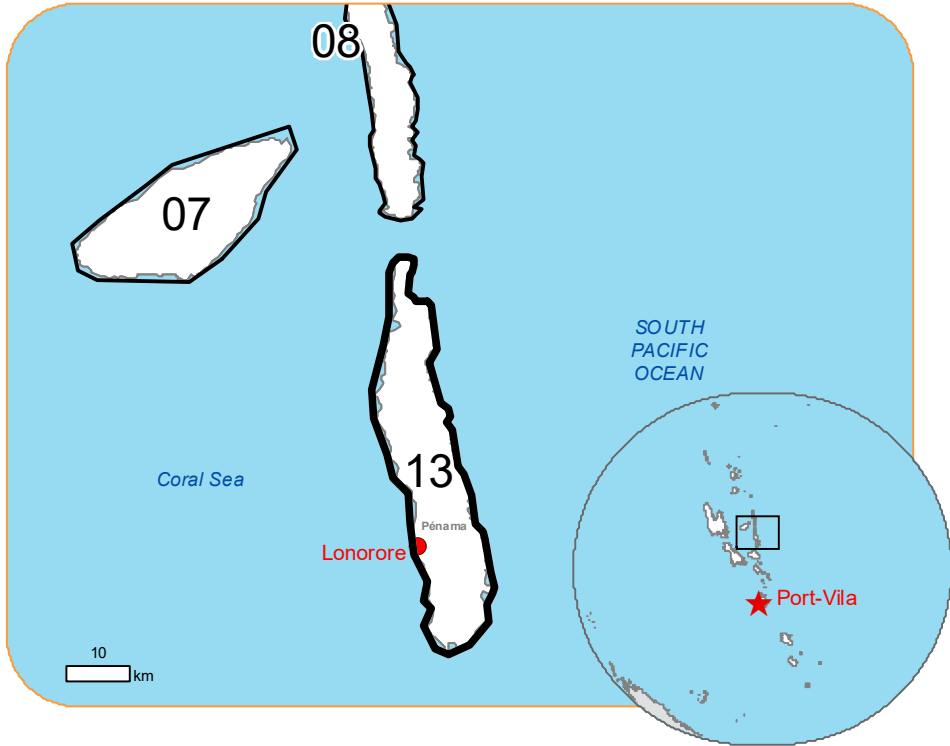




Situation as of 28/10/2023 22:39 UTC
Grading MONIT01 - Overview map 01



Affected Built-up and Transportations



- Built Up Grading**
- Destroyed
 - Damaged
 - Possibly damaged
- Transportation Grading**
- Main road, No visible damage
 - Track, No visible damage
 - Airfield runway, No visible damage
 - Local road, No visible damage
 - Road, Damaged
 - Road, Possibly damaged
- General Information**
- Area of Interest
 - Detail map
 - Not Analysed
- Administrative boundaries**
- Province
- Placenames**
- Placename
- Hydrography**
- River
 - Stream

Event: In the evening of 24 October 2023 local time, the Vanuatu archipelago was hit by the passage of a new tropical cyclone, named LOLA, with winds of up to 145 km/h. The cyclone has passed Solomon Island, and will have an impact on parts of Vanuatu. The event is on-going and increasing over the next 48 hours with very heavy rainfall, strong wind and storm surge are forecast over the whole Vanuatu with damage expected to affect buildings and infrastructure. Copernicus EMS Rapid Mapping is requested to provide damage assessment emergency mapping.

Data sources and analysis: Pre-event image: Pléiades-1A/B © CNES (2022, 2023), distributed by Airbus DS (acquired on 17/08/2022 at 23:25 UTC, the 27/05/2023 at 22:54 UTC, resolution 0.5 m). Post-event image: WorldView2 © Maxar Technologies, Inc. (2023), (acquired on 28/10/2023 at 22:39 UTC, resolution 0.5 m). Pléiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 27/10/2023 at 22:49 UTC, resolution 0.5 m). All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org 2015, Global Administrative Areas (2012), refined by the producer, Copernicus Global Land Service: Land Cover (2019). Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.

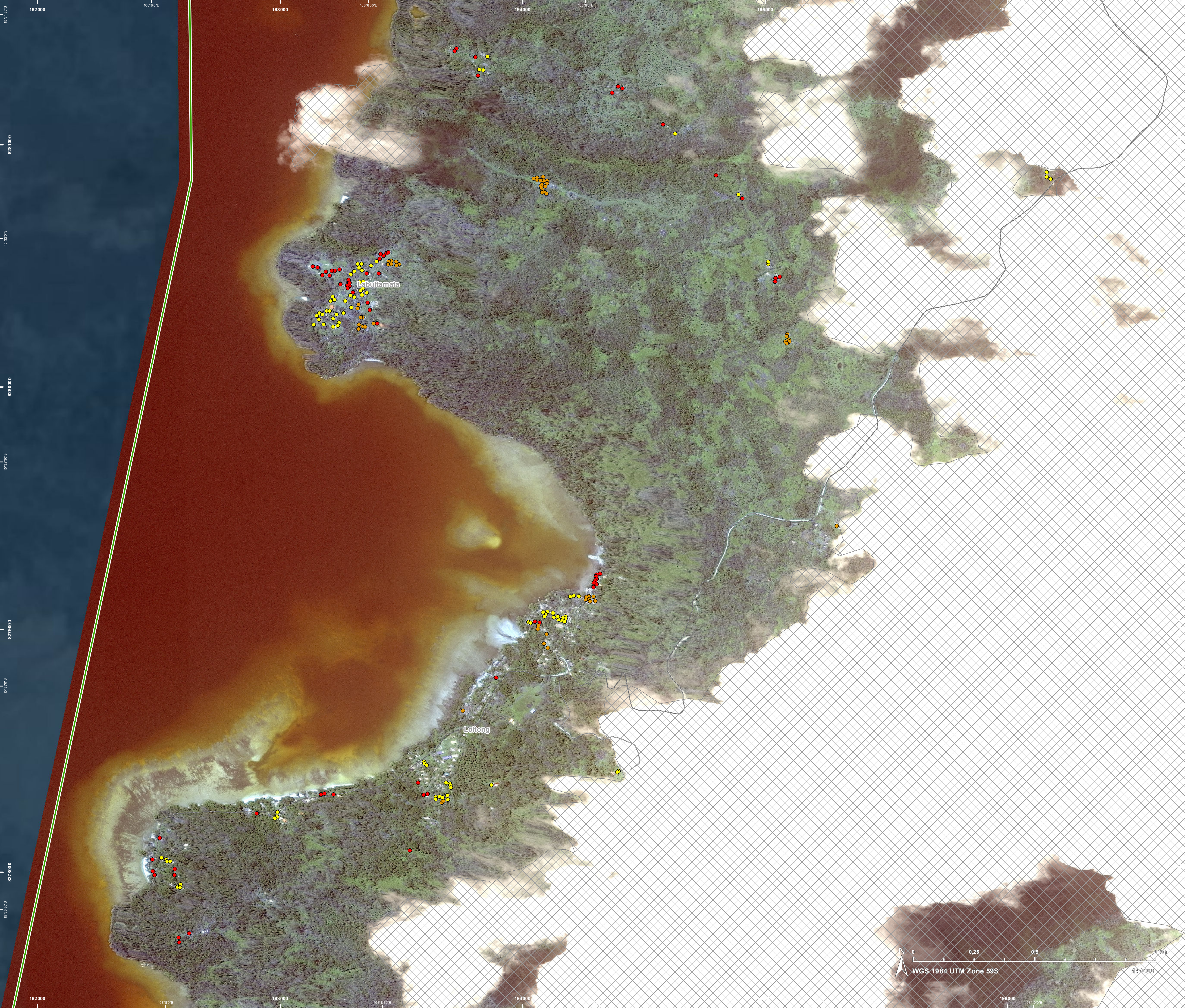
Population data: GHS Population Grid © European Commission, 2023 https://ghsl.jrc.ec.europa.eu/ghs_pop2023.php Digital Elevation Model: SRTM (30 m) (NASA/USGS) provided under COPERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image by means of visual interpretation. "Not analysed" indicates an area that could not be analysed in any of the post-event images. This analysis has been supplemented by the social media.

Map produced by CLS released by e-GEOS on the 30/10/2023.

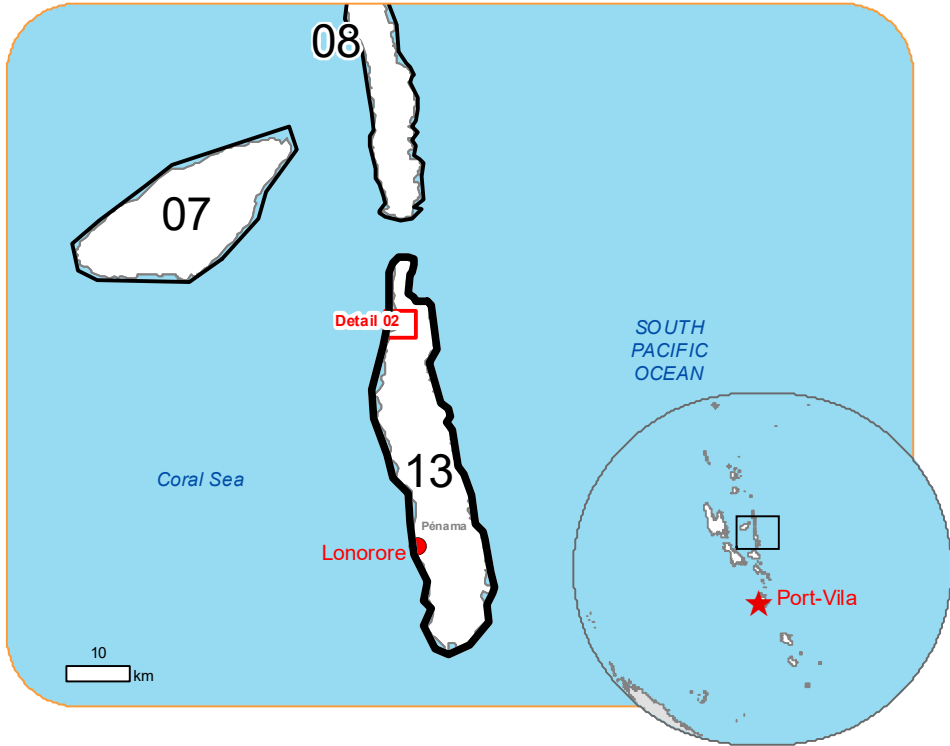
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR702>





EMSR702 - AOI13
Storm in Vanuatu
PENTECOSTE

Situation as of 28/10/2023 22:39 UTC
Grading MONIT01 - Detail map 02



Potentially affected population
~ Not available

Affected Built-up and Transportations

Built-Up
211 No.
(4.8% of total affected)

Built Up Grading

- Destroyed
- Damaged
- Possibly damaged

Transportation Grading

- Track, No visible damage
- Local road, No visible damage

General Information

- Area of Interest
- Image Footprint
- Not Analysed

Placenames

- Placename

Event: In the evening of 24 October 2023 local time, the Vanuatu archipelago was hit by the passage of a new tropical cyclone, named LOLA, with winds of up to 145 km/h. The cyclone has passed Solomon Island, and will have an impact on parts of Vanuatu. The event is on-going and increasing over the next 48 hours with very heavy rainfall, strong wind and storm surge are forecast over the whole Vanuatu with damage expected to affect buildings and infrastructure. Copernicus EMS Rapid Mapping is requested to provide damage assessment emergency mapping.

Data sources and analysis: Pre-event image: Pléiades-1A/B © CNES (2022, 2023), distributed by Airbus DS (acquired on 17/08/2022 at 23:25 UTC, the 27/05/2023 at 22:54 UTC, resolution 0.5 m), Post-event image: WorldView2 © Maxar Technologies, Inc. (2023), (acquired on 28/10/2023 at 22:39 UTC, resolution 0.5 m). Pléiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 27/10/2023 at 22:49 UTC, resolution 0.5 m). All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

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Population data: GHS Population Grid © European Commission, 2023 https://ghsl.jrc.ec.europa.eu/ghs_pop2023.php Digital Elevation Model: SRTM (30 m) (NASA/USGS) provided under COPERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image by means of visual interpretation. "Not analysed" indicates an area that could not be analysed in any of the post-event images. This analysis has been supplemented by the social media.

Map produced by CLS released by e-GEOS on the 30/10/2023.

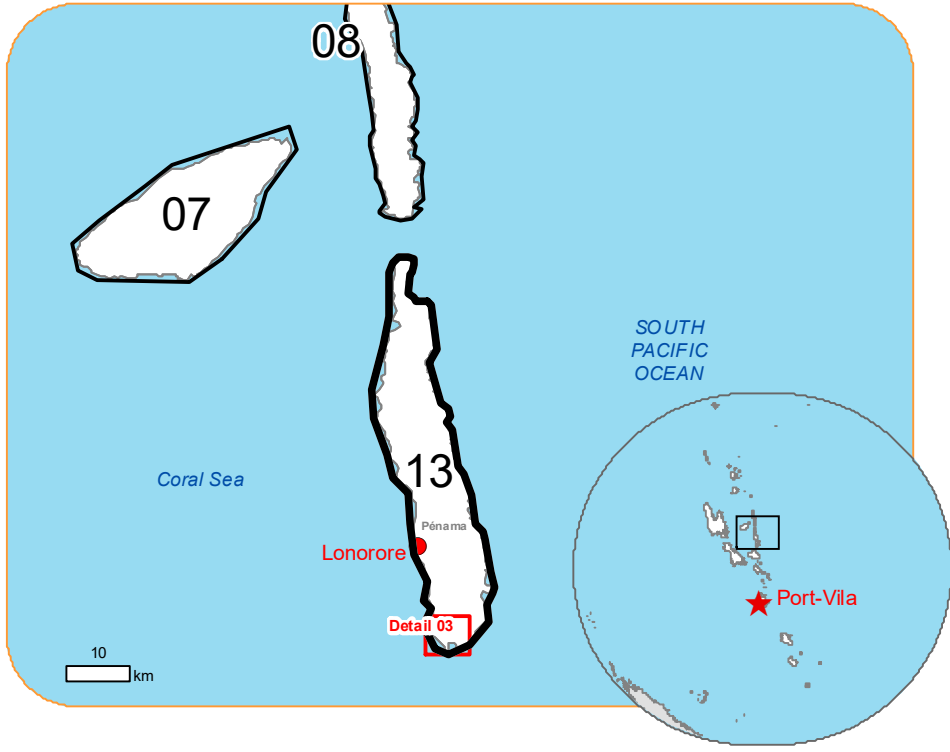
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR702>






EMSR702 - AOI13
Storm in Vanuatu
PENTECOSTE


Situation as of 28/10/2023 22:39 UTC
Grading MONIT01 - Detail map 03







Potentially affected population
~ Not available


Affected Built-up and Transportations


 Built-Up
402 No.
(6.0% of total affected)

 Transportations
402 No.
(6.0% of total affected)


Built Up Grading


 Destroyed

 Damaged


 Possibly damaged


Transportation Grading

 Track, No visible damage


 Local road, No visible damage

General Information


 Area of Interest


 Not Analysed

Placenames

 Placename

Hydrography

 River

 Stream

Event: In the evening of 24 October 2023 local time, the Vanuatu archipelago was hit by the passage of a new tropical cyclone, named LOLA, with winds of up to 145 km/h. The cyclone has passed Solomon Island, and will have an impact on parts of Vanuatu. The event is on-going and increasing over the next 48 hours with very heavy rainfall, strong wind and storm surge are forecast over the whole Vanuatu with damage expected to affect buildings and infrastructure. Copernicus EMS Rapid Mapping is requested to provide damage assessment emergency mapping.

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Consequences within the AOI							
	Unit of measurement		Destroyed	Damaged	Possibly damage*	Total affected**	Total in AOI
Estimated population	Number of inhabitants					NA	~ 21 000
Built-up	Residential Buildings	No.	1 653	815	1 736	4 204	12 900
	Other non-residential buildings	No.	51	20	42	113	266
	Non-residential farm buildings	No.	0	0	0	0	14
	Communication buildings, stations, terminals and associated buildings	No.	0	0	1	1	1
Transportation	Airfield runways	ha	0	0	0	0	11,9
	Airfield runways	km	0	0	0	0	1,8
	Secondary Road	km	0	0	0,6	0,6	51,0
	Local Road	km	0	0,5	2,7	3,2	121,1
	Cart Track	km	0	0	1,4	1,4	54,6
Facilities	Sport and recreation constructions	ha	0	0	0	0	0,8
Land use	Forests	ha	0	0	0	0	43 269,3
	Shrub and/or herbaceous vegetation association	ha	0	0	0	0	6 331,2
	Other	ha	0	0	0	0	7 427,9
* Presence of damage proxies and proximity with destroyed/damaged asset							
** Sum of all damage classes							

Disclaimer:

Full disclaimer and other helpful information available in the online manual:

<https://emergency.copernicus.eu/mapping/ems/online-manual-rapid-mapping-products>

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Data access:

All data displayed on the map(s), as well as the Physiography and Land Use - Land Cover layers, are available in the Crisis Information Package and the Base Layer Package (for reference data).

The table above is available in editable format in the Crisis Information Package.

All products and data are also available for download on the portal.

Access to the portal



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